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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/623,012	09/28/2000	Fumio Teraoka	KOIK-P0004	5702

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EXAMINER

LAM, DANIEL K

ART UNIT	PAPER NUMBER
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2667

DATE MAILED: 12/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/623,012

Applicant(s)

TERAOKA, FUMIO

Examiner

Daniel K Lam

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 September 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☒ Claim(s) 3 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

On page 5, line 11, "upper 64 bits " should be "**lower** 64 bits" in order to be consistent with what is shown in fig. 3.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat.

No. 6,625,145 issued to Winell in view of U. S. Pat. No. 6,614,774 issued to Wang in further view of U. S. Pat. No. 6,172,986 issued to Watanuki et al.

Regarding claim 1, Winell discloses a method of transmitting data from a first node to a second node through a router, comprising:

prefix indicating a sub net to which

- generating an IP address having the node identifier and home prefix which have been read (see col. 5, lines 24-31) ;
- generating a data packet having the IP address generated, and transmitting the data packet to the router of the sub-net to which the second node is usually connected, in accordance with the IP address (see fig. 4 reference 410 and col. 5, lines 63-65);
- transmitting the data packet to the second node on the basis of the header added to the data packet (see fig. 4 reference 420 and col. 5, line 64 to col. 6, line 3).

However, Winell does not disclose the limitations of reading a node identifier corresponding to a host name of the second node input and the home prefix of the second node, nor adding a header indicating a location to which the second node has moved, to the data packet transmitted to the router, on the basis of cache information held by the router to manage the second node.

Wang discloses the limitation of reading a node identifier corresponding to a host name of the second node input and the home prefix of the second node (see fig. 4 reference 110, HOME DNS SERVER, and col. 7, lines 2-14).

Furthermore, Watanuki et al. discloses the limitation of adding a header indicating a location to which the second node has moved, to the data packet transmitted to the router, on the basis of cache information held by the router to manage the second node (see fig. 17 reference 1701, IPv6 HEADER and col. 18, lines 20-36).

Therefore, it would have been obvious to those having ordinary skill in the art to query a DNS server to obtain node identifier and IP address by host name, and adding a header to the data packet before routing for couple of reasons. Firstly, one of the most convenience

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means of denoting destination end point of another party is the use host name to obtain the node identifier and its IP address as taught by Wang (see col. 2, lines 38-43).

Secondly, adding a header to the data packet would allow a mobile node in a foreign network to execute communication successfully without changing setting of IP address and without cutting off the network connection as taught by Watanuki et al. (see col. 2, lines 37-44).

Regarding claim 2, in addition to disclose the limitation regarding claim 1, Wang further discloses that the node identifier corresponding to the host name of the second node input and the home prefix of the second node are read by using an application program (see fig. 2 reference 30, DNS, and col. 2, line 67 to col. 3, line 11).

Allowable Subject Matter

4. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel K. Lam whose telephone number is (703) 305-8605. The examiner can normally be reached on Monday-Friday from 8:30 AM to 4:30 PM.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone number for this Group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

DKL *DKL*
Dec 5, 2003